CONTENTS OF VOLUME 34

ORIGINAL ARTICLES

Bone Tumors	*Charles F. Geschickter, M.D.*	1
Mucocele of the Frontal Sinus: With Special Reference to the Roentgen Aspects and Report of Four Cases	*Adolph Hartung, M.D.* *Theodore Wachowski, M.D.*	30
Cholesteatoma	*Lewis J. Friedman, M.D.*	37
Cleidocranial Dysostosis	*Watson W. Eldridge, M.D.* *Alexander Simon, M.D.* *Raoul Ramos, M.D.*	41
A Case of Tuberculosis of the Humeral Diaphysis and the Cranial Vault	*Lee D. van Antwerp, M.D.*	50
Adenocarcinoma of the Oral Cavity	*William L. Watson, M.D.*	53
Radium Dosage and Technique in Carcinoma of the Tongue	*Frank E. Simpson, M.D.*	63
Intraperitoneal Insertion of Radon and Gastroenterostomy in Carcinoma of the Pyloric End of the Stomach	*Isaac Levin, M.D.*	69
Complications and Injuries in Radium Therapy	*Ira I. Kaplan, B.S., M.D.*	77
Correction of Dietary Errors in Connection with Radium Treatment	*D. T. Quigley, M.D.*	81
The Ionization of Liquid Carbon Disulphide by Roentgen Rays	*F. L. Mohler* *Lauriston S. Taylor*	84
A Note on Bactericidal Effects of Roentgen Rays	*F. L. Mohler* *Lauriston S. Taylor*	89
Examination of the Mucosal Relief as a Diagnostic Aid in Diseases of the Gastrointestinal Tract	*George W. Holmes, M.D.* *Richard Schatzki, M.D.*	145
An Experiment on the Effect of Exercise on the Heart in Athletes	*Ralston Paterson, F.R.C.S., D.M.R.E.* *Edith Paterson, M.R.C.P.*	158
The Esophagus in Disease of the Heart and Aorta: Case Report with Roentgen and Post-Mortem Findings	*J. B. Schwedel, M.D.* *E. B. Gutman, M.D.*	164
Acute Influenza Pneumonitis	*Albert Bowen, Major, M.C., U.S.A.*	164
Initial Lobar Tuberculosis	*Eli H. Rubin, M.D.*	175
Observations on the Roentgen Pathology of Ethmoid Labyrinth and Sphenoid Sinuses	*Dorwin L. Palmer, M.D.*	181
A Roentgenologic Follow-up of 125 Cases of Peptic Ulcer, with Clinical and Laboratory Findings	*A. J. Delario, M.D.*	190
Tuberculous Cysts of the Knee Joint	*Addison E. Elliott, M.D.*	209
Roentgen Therapy in Hyperplastic Blood Dyscrasias: New Technique for Myeloid and Lymphatic Leucemia, Polycythemia Rubra Vera and Hodgkin's Disease	*Heinz Langer, M.D.*	214

The Rôle of Roentgen-Ray Wave Length in Skin Tolerance	*Paul C. Hodges* *Alexander Brunschwig* *S. P. Perry*	234
The Dangers of Roentgenoscopy and Methods of Protection Against them. VI. Some Studies of the "Doses" Received by the Body of the Examiner	*Earl I. L. Cilley, M.D.* *Eugene T. Leddy, M.D.* *B. R. Kirklin, M.D.*	241
A Method for Determining the Limits of Safety in Roentgenography	*Andrew Turnbull, M.D.* *Eugene T. Leddy, M.D.*	258
Sialography; With Particular Reference to Neoplastic Diseases	*H. T. Kimm, M.D.* *J. W. Spies, M.D.* *J. J. Wolfe, M.D.*	289
Roentgenologic Bone Changes in Sickle Cell and Erythroblastic Anemia	*Andrew G. Grinnan, M.D.*	297
Bone Changes of Leukemia in Children	*James M. Baty, M.D.* *Edward C. Vogt, M.D.*	310
An Evaluation of Injury and Faulty Mechanics in the Development of Hypertrophic Arthritis	*Howard P. Doub, M.D.* *Horace C. Jones, M.D.*	315
Roentgen Diagnosis of Fractures of the Base of the Skull	*W. Ginsburg, M.D.*	325
Prolapsing Lesions of the Gastric Mucosa	*Eugene P. Pendergrass, M.D.* *J. Robert Andrews, M.D.*	337
Diverticulum of the Cardia of the Stomach	*James M. Bonnar, M.D.* *Boris Kaplan, M.D.*	351
The Removal of Lymph Nodes in Cancer of the Cervix	*Fred J. Taussig, M.D.*	354
Pulmonary Changes Associated with Upper Respiratory Tract Abnormalities and Diseases	*T. Gage Clement, M.D.*	364
The Relief of Pain by Roentgen Irradiation in Paget's Disease of Bone	*Cassie B. Rose, M.D.*	374
Preliminary Observations Concerning the Effects of Roentgen Irradiation in the Presence of Fluorescein	*Murray E. Goodrich, M.D.*	378
Irradiation in Carcinoma of the Lip	*Ira I. Kaplan, M.D.* *Simon Krantz, M. D.*	381
Giant Cell Tumor of the Spine, with Report of a Case	*G. Westbrook Murphy, M.D.*	386
Pelvic Kidney with Ureter Opening near Urethral Orifice	*E. M. Van Buskirk, M.D.*	395
A Simple Method of Roentgen Pelvimetry	*D. B. Harding, M.D.*	403
Lateral Roentgenography of the Hip	*Morris Manfredi* *Paul C. Swenson, M.D.*	404
Visualization of the Reticulo-Endothelial System by the Injection of Colloidal Thorium Dioxide (Thorotrast)	*Samuel A. Robins, M.D.* *Bernard I. Goldberg, M.D.*	433
An Improved Apparatus for Encephalography Adaptable to Ventriculography	*S. H. Epstein, M.D.* *T. J. C. von Storch, M.D.*	451

Multiple Bone Tumors with Unusual Diagnostic and Therapeutic Characteristics	*Edward L. Jenkinson, M.D.* *J. M. Foley, M.D.*	457
II. Attempt to Produce Paget's Disease by the Use of Anterior Pituitary Growth Extract and Parathyroid Extract	*Robert C. Moehlig, M.D.* *John M. Murphy, M.D.* *Lawrence Reynolds, M.D.*	465
Interlobar Pleural Effusions	*Barnet P. Stivelman, M.D., F.A.C.P.*	475
Neoplasms of the Oral and Upper Respiratory Tracts Treated by Protracted Roentgen Therapy	*William Harris, M.D.*	482
Our Changing Concepts Regarding the Skin Dose, with Some Notes on the Production of Epidermolysis	*Walter L. Mattick, M.D.*	491
Radium Treatment of Cancer of the Rectum	*William M. Shedden, M.D.*	498
The Protection of the Radiologist	*George E. Pfahler, M.D., Sc.D.*	512
Progress in the Design of Shock Proof Roentgen Tubes for Therapy and Industrial Roentgenography	*M. J. Gross, M.S.*	518
Factors Influencing the Quantitative Measurement of the Roentgen-Ray Absorption of Tooth Slabs. I. Radiation Factors	*Harold C. Hodge, Ph.D.* *Grant Van Huysen, D.D.S.* *Stafford L. Warren, M.D.*	523
Factors Influencing the Quantitative Measurement of the Roentgen-Ray Absorption of Tooth Slabs. II. Filter Factors	*Harold C. Hodge, Ph.D.* *Grant Van Huysen, D.D.S.* *Stafford L. Warren, M.D.*	529
A Chair for Roentgen Treatment through the Perineum	*Arthur U. Desjardins, M.D.*	549
Scientific Exhibit by Transparencies; A Method of Economy and Uniformity	*J. A. Beals, M.D.*	552
Congenital Absence of the Septum Pellucidum; Its Diagnosis by Encephalography	*Cornelius G. Dyke, M.D.* *Leo M. Davidoff, M.D.*	573
Serial Bronchography in the Diagnosis of Suppurative Pulmonary Processes	*Pedro L. Fariñas, M.D.*	579
Oblique Films for the Study of Adhesions in Artificial Pneumothorax	*Richard T. Ellison, M.D.*	592
Kidney Function in Acute Calculous Obstruction of the Ureter	*Leslie F. Wilcox, M.D.*	596
Roentgenological Diagnosis of Appendiceal Abscess	*Marcus Ostro, M.D.* *H. L. Granoff, M.D.*	606
Duodenal Diverticulosis	*John D. Lawson, M.D.*	610
Multiple Osteochondropathy of the Phalanges of the Fingers	*Prof. S. A. Reinberg* *Dr. W. P. Graziansky*	617
Further Discussion of the Saturation Method of Roentgen Therapy in Deep-Seated Malignant Disease	*George E. Pfahler, M.D., Sc.D.*	629

The Radium Emanation Treatment of Vernal Catarrh	*Eugene P. Pendergrass, M.D.* *J. Robert Andrews, M.D.*	637
Diagnosis and Treatment of Malignant Tumors of the Nasal Sinuses	*G. Allen Robinson, M.D.*	641
Further Observations on the Use of Unfiltered Roentgen Rays for Superficial Cancers of Wide and Deep Involvement	*Bernard P. Widmann, M.D.*	644
Preliminary Report on 300 kv. Treatment Machine	*John T. Murphy, M.D.*	653
Roentgen Therapy with 700 kv.	*Ralph E. Herendeen, M.D.*	659
The Problem of Uniform Distribution of the Radiation Field in Superhigh Voltage Roentgen Therapy with Tubes Operating on a Continuous Pump	*T. Leucutia, M.D.* *K. E. Corrigan, Ph.D.*	664
Factors Influencing the Quantitative Measurement of the Roentgen-Ray Absorption of Tooth Slabs. III. Mechanical Factors of Tube and Machine	*Harold C. Hodge, Ph.D.* *Grant Van Huysen, D.D.S.* *Stafford L. Warren, M.D.*	678
A Localizer for the Roentgenographic Examination of the Temporal Bone in Stenvers' Position	*John D. Camp, M.D.* *Cesare Gianturco, M.D.*	700
A New Roentgenographic Table	*Richard A. Rendich, M.D.*	702
The Relationship of Radiology and Surgery. Caldwell Lecture, 1935	*J. Shelton Horsley, M.D.*	717
Congenital Cystic Lung: A Report of Multiple Cysts Within an Accessory Lobe	*Moreton J. Thorpe*	724
The Negative Pressure Chamber in the Roentgenological Demonstration of Pulmonary Disease	*Hugh E. Burke, M.D.*	730
Right-Sided Diaphragmatic Hernia; With Report of Three Cases	*H. Dabney Kerr, M.D.* *S. S. Steinberg, M.D.*	735
The Lower Lung Line	*Ephraim Korol, M.D.*	740
Intestinal Obstruction	*L. R. Sante, M.D.*	744
A Brief Consideration of Sarcoma of the Stomach; Report of a Case of Primary Lymphosarcoma	*Robert Drane, M.D.*	755
An Improved Technique for Radium Treatment of Carcinoma of the Uterine Body	*Henry Schmitz, M.D.* *Herbert E. Schmitz, M.D.*	759
Preoperative Radium Treatment of Rectal Carcinoma	*Harry H. Bowing, M.D.* *Robert E. Fricke, M.D.*	766
Roentgen Therapy of Thrombo-Angiitis Obliterans (Buerger's Disease)	*G. E. Pfahler, M.D., Sc.D.*	770
The Roentgenologist as an Expert Witness	*William A. Evans, M.D.*	778

The Biological Measurement of Depth Dosage with 165 kv. and 650 kv. Roentgen Rays	*P. S. Henshaw, Ph.D.* *D. S. Francis, Ph.D.*	789 798
Capacitor Discharge Apparatus	*Glenn W. Files*	
The Place of the Roentgen-Ray Museum in the Teaching Program of the Medical School	*W. Edward Chamberlain, M.D.* *Barton R. Young, M.D.*	811
Factors Influencing the Quantitative Measurement of the Roentgen-Ray Absorption of Tooth Slabs. IV. Absorption Coefficient Factors	*Harold C. Hodge, Ph.D.* *William F. Bale, B.S.* *Stafford L. Warren, M.D.* *Grant Van Huysen, D.D.S.*	817
An Improved Table for Roentgen Therapy	*Arthur U. Desjardins, M.D.*	844
Device for the Standardization of Patient's Position in Oblique Roentgenograms of the Chest	*Andrew L. Banyai, M.D.*	846